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PATENT
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The dose volumes may be preferably between 0.2 and 5 ml, preferably between 1 and 3 ml.

The improved DNA vaccines according to the invention may be administered, in the context of this 5 vaccination method, by various routes of administration proposed in the prior art for polynucleotide vaccination and by means of known techniques of administration.

According to a preferred mode of the invention, the methods of vaccination comprise the administration of the 10 improved DNA vaccines according to the invention by the intramuscular route, the subcutaneous route or with the aid of an injector without needle by the intradermal route.

The invention will now be described in greater detail with the aid of embodiments taken as nonlimiting 15 examples and referring to the drawings, in which:

Figure No. 1: plasmid pVR1012

Figure No. 2: plasmid pAB110

Sequence listing:

- 20 SEQ ID NO 1: oligonucleotide PB326
SEQ ID NO 2: oligonucleotide PB329
SEQ ID NO 3: oligonucleotide SB090
SEQ ID NO 4: oligonucleotide SB091
SEQ ID NO 5: oligonucleotide LF001
25 SEQ ID NO 6: oligonucleotide LF002
SEQ ID NO 7: oligonucleotide PB234
SEQ ID NO 8: oligonucleotide PB235
SEQ ID NO 9: oligonucleotide PB511
SEQ ID NO 10: oligonucleotide PB512
30 SEQ ID NO 11: oligonucleotide SB221
SEQ ID NO 12: oligonucleotide SB222
SEQ ID NO 13: oligonucleotide PB507